

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE REGULATORY CONTACT RECORD'

Date/Time: February 14, 2005

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Agency: CDPHE

Purpose of Contact: Disposition of Survey unit 3

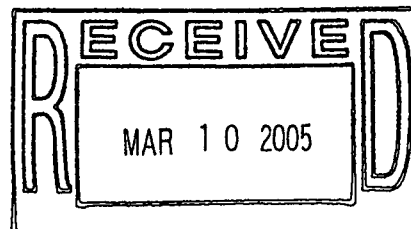
Discussion

In accordance with the 776/777 DOP, Appendix I, the preparation of the facility for demolition is conducted in consultation with the CDPHE and is based on a series of decisions primarily related to maintaining releases to the environment and doses to the workers as low as reasonably achievable (ALARA). This contact record documents the activities that were conducted to prepare survey unit 3 for demolition. Survey unit 3 consists of rooms 144, 154, 155, and 161.

The preparation process for survey unit 3 was initiated June 6, 2004 when a package for in-process radiological surveys was prepared and executed. Once the surveys were complete, it was determined that the in process and final surveys could be combined, and the CDPHE representative concurred with this approach. The area was surveyed in accordance with the Radiological Pre-Demolition Survey Plan for Buildings 776/777. As part of the ALARA-based decontamination, concrete shaving and hotspot removals were performed on a few floor and wall surfaces. In addition, several sections of the floor were completely removed, including the sump in room 161, and the walls around room 155 were removed.

In addition to the radiological hazards, the non-radiological hazards have also been addressed in survey unit 3. The following summarizes the non-radiological activities:

- Room 154 was a permitted RCRA container storage area in Unit 776.1, previously known as Unit 69. Room 154 also provided secondary containment for Tanks SR-3, SR-4 and SR-5 (Units 94.001 – 94.003) and Pilot FBI pencil tanks T-1 and T-2 (Unit 49.02). These areas were washed and rinsed, and CDPHE approved closure of this area in a contact record dated 12/16/04, contingent on final disposition of the building by removal.
- Chemicals and hazardous substances have been removed.



- Beryllium regulated and controlled areas have been closed. None of the rooms in survey unit 3 were listed on the historical list of rooms with potential beryllium contamination. The baseline beryllium characterization and subsequent surveys following equipment removal found no removable beryllium contamination in these rooms. Prior to final encapsulation, twenty-four (24) samples were collected in the survey unit on horizontal surfaces from floor to ceiling. All samples were below the analytical reporting limit of 0.1 ug/100 cm².
- Polychlorinated biphenyls (PCB) hazards and equipment have been removed.
- Asbestos has been abated.

Based on the survey results and the principles of ALARA, the risks (industrial and radiological) to the workers are greater than the benefit in source term reduction that would be gained through additional decontamination. The state project representative agrees that decontamination inside survey unit 3 has progressed to the point of reasonably achievable.

In summary, ALARA-based decontamination has been completed, Survey unit 3 will be encapsulated, surveyed for removable contamination, and controls applied during demolition. This contact record will be placed in the demolition file for this survey unit.

Contact Record Prepared By: Dyan Foss

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